

AMENDMENTS TO THE CLAIMS

1-15. (Canceled)

16. (New) An isolated prothrombin activator protease comprising the amino acid sequence set forth in SEQ ID NO: 3.

17. (New) A method for treating prothrombotic disorders in an individual in need thereof comprising administering to said individual an effective dose of a prothrombin activator protease comprising at least one amino acid sequence selected from the group consisting of SEQ ID NOS: 1, 2, 3, 4 and 5, wherein said effective dose prevents blood clot formation.

18. (New) A method for detecting the presence of prothrombin in the plasma of a patient comprising:

- obtaining plasma from said patient;
- treating said plasma with a prothrombin activator protease comprising at least one amino acid sequence selected from the group consisting of SEQ ID NOS: 1, 2, 3, 4 and 5;
- assaying for thrombin activity in said treated plasma; and
- detecting the presence of prothrombin in the plasma of said patient.

19. (New) The method of claim 18, wherein said patient suffers from a coagulopathy disorder.